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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,311	04/02/2004	Grant Edward Carlson	STL11717	1862
7590 . 09/20/2005			EXAMINER	
David K. Lucente			EDWARDS, ANTHONY Q	
Seagate Technol	logy LLC			
Intellectual Property - COL2LGL			ART UNIT	PAPER NUMBER
389 Disc Drive			2835	
Longmont, CO 80503			DATE MAII ED: 00/20/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/817,311	CARLSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anthony Q. Edwards	2835				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 01 S	eptember 2005.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowa	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
	6) Claim(s) <u>1-20</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) $\boxtimes$ The drawing(s) filed on <u>02 April 2004</u> is/are: a) $\boxtimes$ accepted or b) $\square$ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	r (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/2/04.	5)  Notice of Informal I	Patent Application (PTO-152)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Office A	ction Summary P	art of Paper No./Mail Date 20050919				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 6-11 and 14-19 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,906,914 to Stamos et al. ("Stamos" hereinafter). Referring to claims 1 and 9, Stamos discloses an array storage system (see Figs. 2A and 2B) comprising a shelf (28) defining a tubular closed passage (see Fig. 4A) with a front-end opening and a back-end opening (not numbered), a front-end partition (28a) adapted for supporting a first component (34) inserted in the front-end, a removable back-end partition (46) adapted for supporting a second component (36) inserted in the back-end, and a removable backplane support (46) adapted for operably supporting a backplane (42) in electrical connection with the first (34) and second (36) components.

Referring to claims 2 and 10, Stamos discloses an array storage system comprising a shelf wherein the removable back-end partition (46) comprises the backplane support. See Fig. 4A and col. 4, lines 10-16.

Referring to claims 3 and 11, Stamos discloses an array storage system comprising a shelf wherein the first component (34) is a multiple disc array. See Fig. 3 and the corresponding specification.

Referring to claims 6 and 14, Stamos discloses an array storage system comprising a shelf wherein the second component comprises a component selected from a group consisting of a data storage device controller (36), a power supply unit, an interface unit, and a battery unit.

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Referring to claims 7 and 15, Stamos discloses an array storage system comprising a shelf wherein the backend partition (46) is adapted for supporting a fourth component (38) different than the second component. See Fig. 3 and col. 4, lines 10-16.

Referring to claims 8 and 16, Stamos discloses an array storage system comprising a shelf wherein the fourth component comprises a component selected from a group consisting of a data storage device controller, a power supply unit (38), an interface unit, and a battery unit.

Referring to claims 17 and 19, the method steps are necessitated by the device structure as disclosed by Stamos. See Figs. 3, 4A and 5, as well as the above rejection to claims 1 and 2, respectively.

Referring to claim 18, Stamos discloses a method for electrically connecting components, including removing the backplane and removably inserting a replacement backplane through the back-end opening. See Fig. 3 and col. 4, lines 10-16.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 5, 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stamos in view of U.S. Patent No. 6,853,551 to Baar et al. ("Barr" herenafter). Referring to

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claims 4 and 12, Stamos discloses the device as substantially claimed, except for the front-end partition supporting a third component different than the multiple disc array. Baar teaches providing a chassis (see Figs. 3 and 4) wherein a front-end partition (16) supports a component (not numbered) different or other than a multiple disc array (see Fig. 4 and col. 5, lines 47-51).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the tubular closed passage of Stamos to include a front-end partition, which supports a component different from a multiple disc array, as taught by Baar, since the device of Baar would provide a higher component slot density for the front-end partition of Stamos (i.e., allow for other modules such as power supplies to be housed therein), while maintaining the same form factor size conditions.

Referring to claims 5 and 13, Stamos in view of Baar disclose an array storage system comprising a shelf wherein the third component comprises a component selected from a group consisting of a data storage device controller, a power supply unit, an interface unit, and a battery unit. See col. 5, lines 47-51 of Baar.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stamos in view of U.S. Patent No. 4, 971,563 to Wells, III. Stamos discloses the method for electrically connecting components as substantially claimed (see the above rejection to claim 17 and 18), except for attaching a characteristically different backplane. Wells, III teaches providing a modular backplane assembly for computers (see Figs. 1-3), wherein one backplane module (Fig. 2) is replaceable with a characteristically different backplane module (see Fig. 3) for use in the same computer system.

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It would have been obvious to one of ordinary skill in the art at the time the invention

was made to electrically connect components in the system of Stamos utilizing a modular

backplane assembly, wherein a first backplane is replaced by a characteristically different second

backplane, as taught by Wells, III, since the device of Wells, III facilitates conversion among a

plurality of modules and allows for upgrades to the system of Stamos in a cost efficient manner.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Anthony Q. Edwards whose telephone number is 571-272-2042.

The examiner can normally be reached on M-F (7:30-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynn D. Feild can be reached on 571-272-2800, ext. 35. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 17, 2005

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